

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Form 6-K

REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO
RULE 13a-16 OR 15d-16 UNDER THE SECURITIES
EXCHANGE ACT OF 1934

For 26 January 2010

**Harmony Gold Mining Company
Limited**

Randfontein Office Park
Corner Main Reef Road and Ward Avenue
Randfontein, 1759
South Africa
(Address of principal executive offices)

(Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.)

Form 20-F ☒ X

Form 40-F ☐

(Indicate by check mark whether the registrant by
furnishing the information contained in this form
is also thereby furnishing the information to the
Commission pursuant to Rule 12g3-2(b) under the
Securities Exchange Act of 1934.)

Yes ☐

No ☒ X



Press Release

EXCELLENT DRILLING RESULTS AT GOLPU WEST SPELLS EXCITEMENT FOR HARMONY'S EXPLORATION ACTIVITIES IN PNG

Johannesburg. Tuesday, 26 January 2010. Harmony Gold Mining Company Limited (Harmony) is pleased to advise that encouraging results were achieved from recent drilling conducted on the Golpu West prospect, as part of the company's exploration programme in Papua New Guinea (PNG).

Golpu West is located off the western margin of the Golpu orebody and entirely outside of the existing resource limits. Drilling to date has defined approximately 160 metres of strike and the high-grade mineralisation remains open in all directions.

Results of the significant new drill intercepts include:

WR321: 331m @ 0.51 g/t Au & 0.93 % Cu from 694m

Including: 155m @ 0.88 g/t Au & 1.51% Cu from 868m

WR327A: 478.4m @ 0.85 g/t Au & 1.36 % Cu from 506m

Including: 155m @ 1.47 g/t Au & 2.29% Cu from 691m

WR328: 597m @ 0.57 g/t Au & 0.96 % Cu from 399m

Including: 198m @ 1.13 g/t Au & 1.88 % Cu from 788m

The Wafi-Golpu project area is located in the Morobe Province of PNG and is part of Harmony's 50/50 Joint Venture with Newcrest Mining Limited of Australia.

The high grade portions of copper-gold intercepts are coincident with stockwork veined and altered diorite porphyry. The porphyry is biotite altered, variably silicified and veined, and contains abundant chalcopyrite as fine disseminated sulphide. A halo of lower grade copper-gold mineralisation surrounds porphyry and comprises a stockwork vein network of laminated quartz-magnetite-chalcopyrite veins. Stockwork vein intensity is best developed at the diorite porphyry contact in the adjacent metasediments and gradually decreases away from the contact.

The tenor and continuity of the mineralisation is particularly encouraging. The average gold and copper grades of the Golpu West intercepts are significantly higher than the main Golpu porphyry, which for comparison averages 0.65 g/t Au and 1.4% copper. The current Golpu resource is 163 Mt @ 0.6 g/t gold and 1.1% copper for 2.93 Moz of gold and 1.76 million tonnes of copper.

The drilling has also intersected near surface supergene copper-gold mineralisation including:

WR316: 24m @ 0.6 g/t Au & 0.54% Cu from 82m

WR327A: 22m @ 0.55 g/t Au & 0.9% Cu from 175m

Issued by Harmony Gold Mining Company Limited

26 January 2010

For more details contact:

Marian van der Walt
Executive: Corporate and Investor Relations

on +27 (0)82 888 1242

or

Esha Brijmohan
Investor Relations Officer

on +27(0)82 759 1775

Corporate Office:
Randfontein Office Park
P O Box 2
Randfontein
South Africa 1760
T +27 (11) 411 2000

www.harmony.co.za

JSE: HAR
NYSE: HMY
NASDAQ: HMY
ISIN No.: ZAE000015228

Ends.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Dated: January 26, 2010

Harmony Gold Mining Company Limited

By: /s/ Hannes Meyer

Name: Hannes Meyer
Title: Financial Director